

Contents Volume 164, 2000

Vol. 164, Nos. 1–2

Research Papers

- Salts of aliphatic carboxylic acids: Raman spectra and ion pairing in hydrothermal solutions containing sodium and calcium acetates
J.D. Frantz 1
- Magnetite–melt HFSE partitioning
R.L. Nielsen and J.S. Beard 21
- Geochemical evidence for a lithospheric source for magmas from Los Humeros caldera, Puebla, Mexico
S.P. Verma 35
- Temporal geochemical trends in Kerguelen Archipelago basalts: evidence for decreasing magma supply from the Kerguelen Plume
F.A. Frey, D. Weis, H.-J. Yang, K. Nicolaysen, H. Leyrit and A. Giret 61
- Fluorite $^{87}\text{Sr}/^{86}\text{Sr}$ and REE constraints on fluid–melt relations, crystallization time span and bulk D^{Sr} of evolved high-silica granites, Tabuleiro granites, Santa Catarina, Brazil
R. Sallet, R. Moritz and D. Fontignie 81
- Trace element geochemistry of a thick till and clay-rich aquitard sequence, Saskatchewan, Canada
X.-P. Yan, R. Kerrich and M.J. Hendry 93

Isotope Geoscience Section

- Re–Os isotopic systematics of the 1.95 Ga Jormua Ophiolite Complex, northeastern Finland
A. Tsuru, R.J. Walker, A. Kontinen, P. Peltonen and E. Hanski 123
- Consequences of slow growth for $^{230}\text{Th}/\text{U}$ dating of Quaternary opals, Yucca Mountain, NV, USA
L.A. Neymark and J.B. Paces 143
- Correlation of conductivity and stable isotope ^{18}O for the assessment of water origin in river system
L. Lambs 161

Vol. 164, Nos. 3–4

Research Papers

- ESEM-EDS: an improved technique for major element chemical analysis of fluid inclusions
M.N. Timofeeff, T.K. Lowenstein and W.H. Blackburn 171
- Comparative study of major element geochemistry of gypsum-ghost limestones and selenite lithofacies from the Miocene of northern Carpathian Foredeep: implication to the model of massive replacement of solid sulphates by calcium carbonates
A. Gąsiewicz 183
- Geochemistry of late Cenozoic basaltic volcanism in Northland and Coromandel, New Zealand: implications for mantle enrichment processes
Y. Huang, C. Hawkesworth, I. Smith, P. van Calsteren and P. Black 219
- Origin of rare earth element signatures in groundwaters of circumneutral pH from southern Nevada and eastern California, USA
K.H. Johannesson, X. Zhou, C. Guo, K.J. Stetzenbach and V.F. Hodge 239
- Predictions of thermodynamic properties at infinite dilution of aqueous organic species at high temperatures via functional group additivity
E.M. Yezdimer, J. Sedlbauer and R.H. Wood 259
- Precise elemental and isotope ratio determination by simultaneous solution nebulization and laser ablation-ICP-MS: application to U–Pb geochronology
I. Horn, R.L. Rudnick and W.F. McDonough 281

Isotope Geoscience Section

Search for the mantle nitrogen in the ultramafic xenoliths from San Carlos, Arizona R.K. Mohapatra and S.V.S. Murty	305
The isotopic compositions of molecular nitrogen: implications on their origins in natural gas accumulations Y. Zhu, B. Shi and C. Fang	321
Differential diagenesis of sedimentary components and the implication for strontium isotope analysis of carbonate rocks E.G. Reinhardt, W. Cavazza, R.T. Patterson and J. Blenkinsop	331
<i>Contents Volume 164, 2000</i>	345